

20000331.qrp v01_n777.qrl.20000331

Date: Fri, 31 Mar 2000 19:03:05 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1777

QRP-L Digest 1777

Topics covered in this issue include:

- 1) [66898] Hammarlund
by Gordon <gordon@znet.groupz.net>
- 2) [66899] Re: [COMPUTER] Logging software
by "Michael A. Newell" <wb4huc@texas.net>
- 3) [66900] [OT] Best way to get funds across W/VE border -- Summary
by "K3GM" <k3gm@home.com>
- 4) [66901] RE: Poll on QRZ.COM
by "Bob Tellefsen" <n6wg@earthlink.net>
- 5) [66902] Re: Post Atlanticon Building Plans
by "Bob Tellefsen" <n6wg@earthlink.net>
- 6) [66903] CW for Hearing Impaired
by ArtP721466@aol.com
- 7) [66904] Re: Who has good enclosures for qrp stuff.
by "Chuck Carpenter" <w5usj@globeco.net>
- 8) [66905] Re: Who has good enclosures for qrp stuff.
by "ElectronicsUSA.com" <wpc@west.net>
- 9) [66906] Need help with TTL RS Flip-Flop
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 10) [66907] Audio Filters & MFJ Cub
by "Stephen M. King" <frastephen@home.com>
- 11) [66908] Re: Need help with TTL RS Flip-Flop
by KD1YV <kd1yv@mindspring.com>
- 12) [66909] OT CQ Contest forms....????
by osier <osier@northnet.org>
- 13) [66910] MFJ 9420
by hgruen@pacifier.com (Huston Gruen)
- 14) [66911] Mizuho CW-2S
by hgruen@pacifier.com (Huston Gruen)
- 15) [66912] Re: Mini Quad
by Joe Stodgel <joe_stodgel@yahoo.com>
- 16) [66913] Re: QHI...
by Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>
- 17) [66914] Re: Need help with TTL RS Flip-Flop
by "Cla KA0GKC" <ka0gkc@arrl.net>
- 18) [66915] RE: [COMPUTER] Logging software
by "Goveia, William P" <wgoveia@indiana.edu>
- 19) [66916] Poquet PC - ATA Flash memory

by "Buck, Preston D" <BuckPD@corning.com>

20) [66917] sf:cleanning the shackFw: SF:cleanning the shack Sierra+Omni-V (fwd)
by scott howell <n3byy@speakeasy.org>

21) [66918] Re: Need help with TTL RS Flip-Flop
by "Cla KA0GKC" <ka0gkc@arrl.net>

22) [66919] 1 APR LQQF
by John R Kirby <n3aaz-qrp@juno.com>

23) [66920] Re: Need help with TTL RS Flip-Flop
by "Leon Heller" <leon_heller@hotmail.com>

24) [66921] OT: My Homepage
by Monte Stark <ku7y@dri.edu>

25) [66922] Re: OT: My Homepage
by AdamN7YA@aol.com

26) [66923] Minimal Home Pages
by "baltimoremd@baltimoremd.com" <baltimoremd@baltimoremd.com>

27) [66924] Chuck Adams: QSL Get Well Cards
by "Doug Hendricks" <ki6ds@hotmail.com>

28) [66925] QRP Transceiver VFO Drift
by "Doug Hendricks" <ki6ds@hotmail.com>

29) [66926] RE: Poll on QRZ.COM
by Mike&Paula <herr@ridgecrest.ca.us>

30) [66927] Re: 30m QRP freq?
by Jim Durkin <jimdurkin@yahoo.com>

31) [66928] FS: TEN-TEC 40M XCVR WITH BUILT IN FREQ-MITE
by "Dana Michael" <damichael@blazenet.net>

32) [66929] BOB - WA2HOQ
by Barry J Minsky <w2bj@juno.com>

33) [66930] bands dead?
by tom whalen <wb5qyt@eFortress.com>

34) [66931] ArkieCon Prize and Saturday Test Drive update
by "Jay Bromley" <w5jay@alltel.net>

35) [66932] Re: QRP Transceiver VFO Drift
by "Rod, N0RC" <n0rc@qsl.net>

36) [66933] battery charger
by Scott Gregson - KC7MAS <emtech@steadynet.com>

37) [66934] Ref: K2 Upgrades
by George F Franklin <w0av@juno.com>

38) [66935] Re: bands dead?
by Shepherd@aol.com

39) [66936] ARRL Web Page Survey - QRP
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>

40) [66937] Re: bands dead?
by "Victor Blackwell" <victor@brecnet.com>

41) [66938] tnx RE: band condx
by tom whalen <wb5qyt@eFortress.com>

42) [66939] Cub observation
by tom whalen <wb5qyt@eFortress.com>

43) [66940] Re: Chuck Adams: QSL Get Well Cards and PSE QSL

- by "Jay Bromley" <w5jay@alltel.net>
- 44) [66941] Re: K2 Upgrades
by "Mike Yetsko" <myetsko@insydesw.com>
- 45) [66942] Fw: ArkieCon Prize and Saturday Test Drive update
by "Jay Bromley" <w5jay@alltel.net>
- 46) [66943] Fw: ArkieCon Prize and Test Drive UPDATE
by "Jay Bromley" <w5jay@alltel.net>
- 47) [66944] NC-20 Tune Pot
by "John J. McDonough" <wb8rcr@arrl.net>
- 48) [66945] Want to trade Tektronix 2215 Service Manual for 2215A Service Manual
by Jim Cotton <cotton@wmich.edu>
- 49) [66946] Re: ARRL Web Page Survey - QRP
by Bob Hightower <nk7m@extremezone.com>
- 50) [66947] Re: Cub (Drift) observation
by "Steven Weber" <kd1jv@moose.ncia.net>
- 51) [66948] SMT parts source
by "Steven Weber" <kd1jv@moose.ncia.net>
- 52) [66949] Re: Cub (Drift) observation
by Bruce Muscolino <w6toy@erols.com>

Date: Thu, 30 Mar 2000 19:17:39 -0500
From: Gordon <gordon@znet.groupz.net>
To: qrp-1@Lehigh.EDU
Subject: [66898] Hammarlund
Message-ID: <4.2.0.58.20000330191600.0095acc0@mail.groupz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Many thanks to al who answered my call for help, have found someone who
can help ,again thanks to all for your help, love my HQ110C

73 Gordon W4KYW

Date: Thu, 30 Mar 2000 18:34:24 -0600
From: "Michael A. Newell" <wb4huc@texas.net>
To: malman@world.std.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66899] Re: [COMPUTER] Logging software
Message-ID: <38E3F290.5BE82104@texas.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The hand held devices that run Windows CE (or the new PocketPC OS) are called Palm-sized PC's or Pocket PC's.

The devices called Palmpilots run the Palm operating system and include the One True Palmpilot or any of its One True Clones (the Handspring Visor, the IBM Workpad, the TRGPRO).

If you're looking for Palmpilot logging programs you can find a couple at

<http://www.cs.utexas.edu/users/kharker/palm-ham/>

You can also go to <http://www.palmgear.com/> and do a search. I searched for the word 'logging' and came up with two or three more Palm OS logging programs. You could also search for software using AltaVista, Yahoo, or any of the other search facilities.

Shameless Plug: I've been using a Handspring Visor for about six weeks now and like it a lot.

Good luck,

--

Michael A. Newell - WB4HUC
Austin, TX
QRP-L 1668
<http://wb4huc.home.texas.net>

Date: Thu, 30 Mar 2000 20:06:05 -0500
From: "K3GM" <k3gm@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66900] [OT] Best way to get funds across W/VE border -- Summary
Message-ID: <03e301bf9aad\$4a7ba4a0\$246e0c18@adubn1.nj.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Man, you guy's came out of the woodwork on this one! I got no fewer than 27 replies; I think all direct. Thanks for keeping it off the reflector. Some

of the suggestions were right under my nose but I didn't think of them! A few have asked that I share what I received with them, so at the risk of getting torched, I have listed a summary below.

8 International Bank Money Order - Some suggested conversion to the recipients tender
7 International Postal Money Order - 3 bucks instead of 80 cents at the USPS
3 Western Union Wire
3 www.paypal.com - Check this out, looks interesting
2 USPS Money Order cashed at a bank instead of the local P.O.; worked OK for them
2 Travelers Check - I guess leave the signatures off of it.
1 Bank cashiers check
1 USPS Money Order cashed at a VE Post Office; worked for them!

As far as conversion goes, I assumed that the seller's price was in US dollars, not Canadian dollars. If the latter is the case, he's making out "like a bandit" due to the 1.44 conversion rate. I guess it would be wise to clarify this when agreeing on a price. My seller is going to try to deposit it his bank being that he still has possession of the USPS M.O. If that doesn't work, I think I'll try the International Bank M.O. in US funds. Again, thanks to all for the flood. You guys are really amazing!

7 3.....Tom K3GM ..

Date: Thu, 30 Mar 2000 17:16:19 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [66901] RE: Poll on QRZ.COM
Message-ID: <01bf9aae\$b804e9e0\$4dd3fc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ed

I would modify the question slightly, as follows:

"What percentage of your operating, using any mode, is done using QRP? (5 W or less)"

My reason is that many people have a sort of knee-jerk reaction that QRP and cw are the same thing. This would remind them that all modes qualify as QRP operating.

72, Bob N6WG

Date: Thu, 30 Mar 2000 17:19:12 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>
Subject: [66902] Re: Post Atlanticon Building Plans
Message-ID: <01bf9aaf\$1f5fa760\$4dd3fc9e@ham.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Rod

Having built and enjoyed the SW-40+ from the Elmer 101 program, I recommend you add at least one more crystal to the crystal filter, perhaps up to 4 or 5 crystals.

When you put a 10-turn pot on a rig that tunes over 50 kHz, the three crystal filter sounds awfully broad. A slow tuning rate just begs for a steeper sided filter.

72, Bob N6WG

Date: Thu, 30 Mar 2000 20:51:43 EST
From: ArtP721466@aol.com
To: qrp-1@lehigh.edu
Subject: [66903] CW for Hearing Impaired
Message-ID: <2.2084970.26155eaf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Chuck Carpenter asked for tips on CW for the hearing impaired. A great group with lots of solutions is Courage Handi-Hams. Look them up on the web. They specialize in Amateur Radio access for all people with different abilities.

Art KB90VS

Date: Thu, 30 Mar 2000 19:02:09 -0600

From: "Chuck Carpenter" <w5usj@globeco.net>
To: Firefox@Southwind.net, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [66904] Re: Who has good enclosures for qrp stuff.
Message-ID: <3.0.2.32.20000330190209.007a0210@mail.globeco.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Randall,

Hamtronics has some enclosures too.

<http://www.hamtronics.com/>

Chuck Carpenter, Point, Rains County, Texas -- RARA #003
ARCI #5422, QRP-L #1306, SOC #57, Six Club #201, SMIRK #6275

Date: Thu, 30 Mar 2000 18:13:57 -0800 (PST)
From: "ElectronicsUSA.com" <wpc@west.net>
To: qrp-1@Lehigh.EDU
Subject: [66905] Re: Who has good enclosures for qrp stuff.
Message-ID: <20000331021357.C0E5F24B55@acme.sb.west.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

One of my niche businesses- Small Plastic Boxes!! 72, Jack WA6KY0

<http://PlasticBox.homepage.com>

=OR=

<http://Boxes.homepage.com>

Date: Thu, 30 Mar 2000 21:04:28 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [66906] Need help with TTL RS Flip-Flop
Message-ID: <00e701bf9abd\$d709bfa0\$0200000a@aplitech>

It's been so long since I've played with a 7400, but the circuit I need seems so simple. Its an RS flip-flop. I've got it working fine except for power up. How do I make the flip-flop power up in a selected state? I Just can't

remember how it's done.

If all else fails, I've do it with a PIC, but man that seems like overkill.

Thanks for reading and 73 de KA0GKC Claton Cadmus

ka0gkc@arrl.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Thu, 30 Mar 2000 23:41:12 -0500
From: "Stephen M. King" <frastephen@home.com>
To: qrp-1@Lehigh.EDU
Subject: [66907] Audio Filters & MFJ Cub
Message-ID: <3.0.6.32.20000330234112.007a2c50@mail.rdc2.pa.home.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I enjoyed the post on audio filters. I picked up a Radio Shack DSP filter at the Timonium Hamfest. I made my old HW-7 almost usable! It does a great job of eliminating SW BC interference, AC hum and nearby signals. The audio amp and speaker is quite nice as well!

On the other hand, I also picked up an MFJ Cub for 20m and haven't used the HW-7 since I completed the kit. I haven't built anything of consequence since I built a TT-2 in 1976 when I was in high school. It really is a great "get-back-into-building" project! Except for the vfo drift it is really quite nice and have had a ball with it.

73 es 72,
Stephen King
KD3OG

Date: Thu, 30 Mar 2000 23:54:16 -0500
From: KD1YV <kd1yv@mindspring.com>
To: ka0gkc@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66908] Re: Need help with TTL RS Flip-Flop
Message-ID: <38E42F78.AD9B24BB@mindspring.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't have my references handy, and it's also been a long time since I worked with 74xx. However, I do remember that you build a half-monostable multivibrator input to the reset. This is just an RC circuit to momentarily take the reset line to it's active state, then as C charges or discharges, return it to it's opposite state.

--

72/73 de Jim, KD1YV

All of my friends must be related. Every one has @ in his/her name.

Cla KA0GKC wrote:

> It's been so long since I've played with a 7400, but the circuit I need seems
> so simple. Its an RS flip-flop. I've got it working fine except for power
> up. How do I make the flip-flop power up in a selected state? I Just can't
> remember how it's done.
>
> If all else fails, I've do it with a PIC, but man that seems like overkill.
>
> Thanks for reading and 73 de KA0GKC Claton Cadmus
> ka0gkc@arrl.net
> MNQRP #1
> Minnesota QRP'ers we're looking for you!
> Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Fri, 31 Mar 2000 01:05:34 -0500
From: osier <osier@northnet.org>
To: qrp-l@lehigh.edu
Subject: [66909] OT CQ Contest forms....????
Message-ID: <38E4402E.409520F7@northnet.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello All !!!

The ARRL has forms to print off thier site but does anyone have a site with CQ forms ???

The WPX and CQWW forms would be very nice to have in a form that you could print out instead of sending a S.A.S.E. and waitingDoes a

site that has these exist ?????

73 s and many tnx !!!!

George , N2JNZ/QRP

Date: Fri, 31 Mar 2000 00:12:01 -0800 (PST)
From: hgruen@pacifier.com (Huston Gruen)
To: qrp-l@lehigh.edu
Subject: [66910] MFJ 9420
Message-ID: <200003310812.AAA27895@smtp.pacifier.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Does anyone know of any mods or fixes for the MFJ 9420 or 94XX series radios? Is there a website that covers these radios. I have the QST article that covered some mods. Any info would be appreciated. Thanks.

Huston K7ITA

Date: Fri, 31 Mar 2000 00:15:19 -0800 (PST)
From: hgruen@pacifier.com (Huston Gruen)
To: qrp-l@lehigh.edu
Subject: [66911] Mizuho CW-2S
Message-ID: <200003310815.AAA28000@smtp.pacifier.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Is there anyone out there that has a Mizuho CW-2S sidetone monitor or a assembly sheet? I have a kit ot build but no info. I also have a schematic but the component values are missing. Any help at all would be appreciated. Thanks.

Huston K7ITA

Date: Fri, 31 Mar 2000 00:34:55 -0800 (PST)
From: Joe Stodgel <joe_stodgel@yahoo.com>
To: rxd7@po.cwru.edu, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66912] Re: Mini Quad

Message-ID: <20000331083455.4630.qmail@web1404.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Dick,
The Canadian Amateur magazine shows the Mini HF Beam,
Hybrid Quad Antenna from T.G.M. Communications, 121
Devon St.. Stratford, ON Canada, N5A 2Z8
Tel. & Fax (519) 271-5928 No website listed in ad.

MQ-1, 6, 10, 15, 20 mtrs US\$ 279.95
MQ-2 6, 10, 12, 15, 17, 20 mtrs US\$ 369.95.
plus shipping, GST & PST where applicable.

Usual disclaimer, of course - I am not affiliated with
the RCMP or Alan Thicke.
73 Joe K6JS aka VA3FCC

--- "Richard A. Dell" <rxld7@po.cwru.edu> wrote:
> Some time ago the group mentioned that the "Mini
> Quad" that was made in
> Pennsylvania was again being made some where in
> Canada. Does anyone know
> their address and or website ?
>
> Thanks,
>
> Dick Dell, WD8ISB
>
>
>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Fri, 31 Mar 2000 07:28:38 -0500
From: Thomas Jennings <jennings@eng14.rochny.uspra.abb.com>
To: kc8aon@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66913] Re: QHI...
Message-ID: <38E499F6.341E2F2E@eng14.rochny.uspra.abb.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Gang,

QHI is a good Q signal for mobile ops who are just arriving at the destination...

73,

Tom, kv2x/m

Date: Fri, 31 Mar 2000 07:14:30 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [66914] Re: Need help with TTL RS Flip-Flop
Message-ID: <013e01bf9b13\$0ed9c560\$0200000a@aplitech>

Good Morning QRP-L!

Ok, I posted this last night and now early this morning I've had several replies, this list is a great resource. I had to laugh though, must responses also mentioned how distant TTL logic is in their memories. I don't feel quite so dumb today.

Anyway, I got it to work this AM, but I don't think it will be reliable. Would like something that would insure the correct powerup. Here's a better description and my solution. Maybe I've post a circuit on the web later today.

Remember, this is a 7400 nand gate RS Flip Flop when the Set input goes low the Q goes high. Both inputs have edge trigger circuits, consisting of a 1K to V+, 2.2k to ground and a .01uf cap. The other side of the cap is the edge trigger input and I also added a 10k Pullup here as well. The not Q output is connected to a 1k resistor that drives the base of an NPN transistor.

This is what I had last night. Invariably the circuit would power up with the not Q low and the transistor off. Opposite of what I wanted. This morning in those minutes when you wake up and wonder about things it hit me. The Q output is just floating. The 1k and transistor on the not Q output is also connected to the "other" input of the other nand gate. This much be setting up the startup state. I added a 1.5K (1K5) resistor from the Q output to ground and now it powers up as I want. I haven't been able to get it to fail, but I'm not sure why it works either. I'm thinking the resistor/base-emitter junction was pulling the not Q output low a little longer then the Q output causing the consistent power up state. Now with the resistor to ground on the Q output it stays lower then the not Q output because it doesn't have a base/emitter junction and powers up opposite and the way I want.

Sound good?? Still, I don't like it. Just doesn't seem right. Any ideas???

73 de KA0GKC Claton Cadmus

ka0gkc@arrl.net

MNQRP #1

Minnesota QRP'ers we're looking for you!

Email me or visit this page <http://www.qsl.net/mnqrp>

Date: Fri, 31 Mar 2000 08:41:41 -0500

From: "Goveia, William P" <wgoveia@indiana.edu>

To: "'malman@world.std.com'" <malman@world.std.com>, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [66915] RE: [COMPUTER] Logging software

Message-ID:

<4F1C26C2EB4CD211BD2300805F657B5C020E1A31@newjersey.exchange.indiana.edu>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Joel,

I purchased a Palm IIIe about 3 weeks ago. This one only has 2 megabytes of RAM, while it sounds as if you are looking for one with 8 Megs (for that matter, I'm already thinking of upgrading mine). My recommendation wouldn't be the Palm IIIxe, just recently released, and retails at about \$249.

You can buy/download software for the PALm Platform (and in some cases for that matter, buy Palm Devices) at the following websites:

www.palmgear.com (palms and software)

www.handango.com (palms and software)

<http://download.cnet.com/downloads/0-10002.html?tag=st.sa.13628.dir10002>

(software only, but links to reviews)

<http://www.zdnet.com/downloads/pilotsoftware/> (software only)

I had a program called HFLog (I think I found it on the Handango site) for my palm, but I found it to crash my palm a lot, so I removed it. I suppose to be fair, I should mention that I have neglected to send this bug report to the author of the software so that he could address it, and since I am messing around with programming the Palm, my problems could easily have been related to the software I wrote.

At any rate, I love mine. I've stored the ITU prefixes on it (oh yeah,

available at www.memoware.com), and a number of other ham related stuff. There is APRS available for the Palm platform....many of the digital modes I was hesitant to mess with (to me, APRS didn't make sense on my klunker of a home computer, since that computer is stationary) seem to be cropping up for Palm, so It's worth a try.

Also, FYI, the other "major" handheld platform is Windows CE, but when I was shopping, these appeared to be somewhat more expensive, and I kind of like the idea of owning computers that don't require the manufacturer to ante up to the folks in Redmond, WA.

My \$.02 worth (adjusted for inflation, of course).

73,
Bill
KB9RBW

GEEKS SINGING (very) BADLY: 0002

-----Original Message-----

From: Joel Malman [mailto:malman@world.std.com]
Sent: Thursday, March 30, 2000 4:49 PM
To: Low Power Amateur Radio Discussion
Subject: [COMPUTER] Logging software

Folks,

I am thinking about getting a Casio Palm Pilot (pocket size computer) for schedule management, some small spread sheets and for transmitter keying and contest logging.

I have been told that 8k memory models are now under \$200 and run a limited version of Windows ('98?).

Anyone use a Palm Pilot for logging? Which logger do you use? It would seem that none of the current contest logging programs would fit in 8k RAM memory.

Any words of wisdom from the list would be helpful.

72

p.s. tried to nab VQ9P0 on 28004 this afternoon, but no luck. The pile-up was just to big.

--

/joel K1QM (K1 Queen Mary) Concord, Massachusetts
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641, SOC #42

Date: Fri, 31 Mar 2000 08:44:33 -0500
From: "Buck, Preston D" <BuckPD@corning.com>
To: "'qrp-l'" <qrp-l@Lehigh.EDU>
Subject: [66916] Poquet PC - ATA Flash memory
Message-ID: <9C472CF03C5ED111BBF20000F84A170101F821E0@EAGLE.CORNING.COM>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain

Greetings all,

I brought my Poquet PC Plus with me to Silicon valley this week so I could find a memory card that worked. I could only find ATA Flash memory PCMCIA cards and couldn't make it work. The NJQRP club's web site lists Compact Flash as working but the places I went didn't have the adapter in stock. Fry's was very good about letting me return the card.

Also, my PC Plus is behaving oddly. It won't turn off. I hit the green button to put it into sleep mode and it springs back to life in about 30 seconds. Which explains why the NiCad was dead. It did this both from the battery pack and from the AC adapter. When it awoke it reported a either a divide by zero error or a division overflow error (I can't remember which right now). Any ideas?

I went to Fry's to buy a new hard drive for the computer I am building for my kids. I was amazed at the prices!!! I bought a Western Digital 13.6Gb HDD for \$120 with a \$30 rebate coupon!!! Wow.

I really enjoy wandering though Fry's, you never know what you will find. This time I also bought a anti-static pad and SMT tip for my soldering station so I can start on my K2 and be ready for the NORCAL SMT kit.

This was my first time in Northern CA that the hills were green and it was very beautiful, 70 degrees and sunny. Especially since the car rental place substituted a convertible for the defective car they tried to give me.

73,
Preston, n0g1m, Southern NY state

My words, not my employer's

Date: Mon, 8 Mar 1999 08:51:48 -0500 (EST)

From: scott howell <n3bby@speakeasy.org>
To: qrp-1@lehigh.edu
Subject: [66917] sf:cleaning the shackFw: SF:cleaning the shack Sierra+Omni-V (fwd)
Message-ID: <Pine.LNX.4.20.9903080845110.679-100000@n3bby.yi.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

>
>
> Hello folks, no I'm not giving up radio, but I have to clean out the
> shack of some toys. I haven't had the time to do as much playing and
suspect
> before long, this is only going to become more difficult.
> So, being as I have all the toys I need for now. Here's the list of items
> for sale.
>
> Wilderness Sierra w/KC1 counter/keyer, 80, 40, 30, 20 band modules, that
> little RS power supply that puts out something like 2.5 amps with its
> carrying case, all manuals for the Sierra, Paddlette paddle with case, bud
> headphones never used, RG Electronics Balun, RS powered speaker (no
> filtering on this one), solar pannel (this is the one you can get at
Dayton
> that folds and has all the gooddies inside, and cables. Shipping within
the
> 48 states and insurance asking \$425. Btw, only problem with the Sierra
that
> I haven't had time to fix is I installed a switch for reversing paddles,
it
> broke at FYBO. Well the thing you grab on to broke, but otherwise the rig
is
> in excellent condx.
>
> DK9SQ 33ft Mast and loop antenna \$175 shipped. This hasn't been used much
at
> all, w/Second Mast \$\$250 includes shipping/insurance.
>
> Ten-Tec Omni-V in very good condx. Has some small scratch on right side
from
> the pwr sup. Installed currently 500Hz filter in the 1st if, 1.8, 500, 250
> in the 2nd if plus extra 1.8 if you'd like to use that in the 1st if,
> manual, matching pwr sup/speaker, extra power cable, hand mic, optional fm
> board, and optional speech board. Has had QRP mod and is working
perfectly,
> and a 6 radio/antenna switch by MFJ. Will toss in at no extra charge a
pair
> of Kenwood HS5 headphones which I didn't use much. The whole pkg \$1325
> shipping/insurance.

>
> Kent paddle box & manual \$100 shipped.
>
> No reasonable offers refused.
>
> If your curious, I have a Ten-Tec Triton IV I have grown to really like
and
> prefer to use it and yes its QRP to qro.
> I don't travel much so decided I just didn't need all this portible gear
> either.
>
> tnx es 73 de Scott/n3byy
>
>

Date: Fri, 31 Mar 2000 08:47:05 -0600
From: "Cla KA0GKC" <ka0gkc@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [66918] Re: Need help with TTL RS Flip-Flop
Message-ID: <018501bf9b20\$003698a0\$0200000a@aplitech>

BTW, several replies mentioned placing a capacitor from one input to ground.
I tried that and it didn't work? You'd think it would though by holding that
input to ground a little longer. Maybe due to the edge trigger circuits being
there is why a capacitor doesn't work.

Keep the ideas coming please,

73 and thanks again for all the replies so far,
Cla KA0GKC

Date: Fri, 31 Mar 2000 09:51:00 -0500
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [66919] 1 APR LQQF
Message-ID: <20000331.095250.-127485.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

best viewed with a FIXED font

"5 X 5" matrix

O N E X A
P R I L B
F Q C D G
H J K M S
T U V W Z

H T T W D
O E T A Q
J J D Z L
Z A E Q A
J U H W W

john
N3AAZ
FM19xa

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Fri, 31 Mar 2000 07:43:28 PST
From: "Leon Heller" <leon_heller@hotmail.com>
To: ka0gkc@arrl.net, qrp-1@Lehigh.EDU
Subject: [66920] Re: Need help with TTL RS Flip-Flop
Message-ID: <20000331154328.49048.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>
>BTW, several replies mentioned placing a capacitor from one input to
>ground.
>I tried that and it didn't work? You'd think it would though by holding
>that

>input to ground a little longer. Maybe due to the edge trigger circuits
>being
>there is why a capacitor doesn't work.

Try a short delay (Schmidt trigger) after power-up, to set the flip-flop.
It'll mean another chip, R and C. 8-(

Leon

--

Leon Heller, G1HSM

Tel (work): +44 1327 357824 Tel (mobile): +44 79 9098 1221

InfraRed Integrated Systems Ltd., Towcester Mill, Towcester, Northants.,
NN12 6AD, United Kingdom.

Email:leon_heller@hotmail.com

Web page: <http://www.geocities.com/SiliconValley/Code/1835>

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 31 Mar 2000 08:01:28 -0800 (PST)

From: Monte Stark <ku7y@dri.edu>

To: Low Power Amateur Radio <qrp-1@Lehigh.EDU>

Subject: [66921] OT: My Homepage

Message-ID: <Pine.GS0.4.10.10003310753440.19853-100000@rotor.dri.edu>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All,

Due to the kindness of Mary, NA6E I now have a HomePage!

Yessiree..... full of HTML even! Pictures and links. Just
like downtown!

But beware..... there are pictures of me there. There is
even one of me wearing the famous Super Glue tee shirt!

: -)

And yes, that's also me on the tower. (The tower will come down on 10 April 2000.....) :-(

For those looking for a place to have a home page and nice email address check out qsl.net. It's free but you are asked to donate something if you can.

He also offers a regular ISP service at a good price.

No connection with him. I just think it's very nice for someone to let people use his system free. Those of us who can afford to send him a few bucks should while those who can't shouldn't worry about it!

Thanks for the BW and back to my hole.....

73, Ron

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@qsl.net....SOC #2.....Nevada....NRA LIFE....
.....SOWP 5545M.....WHINERS #1.....ZOMBIE #18.....
....Visit my Home Page.....<http://www.qsl.net/ku7y/>....

Date: Fri, 31 Mar 2000 11:21:11 EST
From: AdamN7YA@aol.com
To: qrp-l@lehigh.edu
Subject: [66922] Re: OT: My Homepage
Message-ID: <20.3ee1628.26162a77@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 3/31/2000 8:02:53 AM Pacific Standard Time, ku7y@dri.edu writes:

<< And yes, that's also me on the tower. (The tower will come down on 10 April 2000.....) :-(>>

Ron, i would strongly suggest coming down FIRST! :-)

72/73/74...Adam, N7YA
Las Vegas, NV...Zone 03
QRP-L #1608, SOC #143, Y Guy #2
Code Warrior #76, Hamusician #1

Subject: [66924] Chuck Adams: QSL Get Well Cards
Message-ID: <20000331170038.99388.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Guys, Chuck Adams, K7Q0, has helped every ham on this list. He recently underwent angioplasty, and is recovering now. I know what he is going through, and I know something that you can do to help his recovery. One of the best "medicines" that I had during my recovery were the get well cards from all of you. It really was special. My favorite "get well" cards were QSL's that had a hand written note on the back. It was something special, and I treasured them. So, let's do the same thing for Chuck. Take a minute, write him a short note on the back of qsl, put it in an envelope, and send it to:

CHUCK ADAMS
BOX 11840
PRESCOTT AZ 86304-1840

Thanks for the bandwidth. It is important to show that you care. 72, Doug,
KI6DS

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 31 Mar 2000 09:19:35 PST
From: "Doug Hendricks" <ki6ds@hotmail.com>
To: dperson@PeoplePC.com, qrpcub@listbot.com, qrp-1@lehigh.edu
Subject: [66925] QRP Transceiver VFO Drift
Message-ID: <20000331171935.54781.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Doug, I have some arm length experience with VFO drift. During the development of the NorCal 20, Mike Gipe, K1MG, Gary Surrency, AB7MY, Dave Meacham, W6EMD, and Dave Fifield, AD6A, spent 5 weeks working several hours every day to minimize the drift in the NC20. They succeeded quite well, and the secret was finding the right combination of polystyrene and npo caps. The Cub is on 6 different bands, and I can't imagine how long it would take to really stabilize the vfo on every band. What I imagine will happen is that guys will build the various versions, experiment with cap values and types, and they will work it out for each band. My guess is that the solution will be different for each band.

This is one of the neat things about kits. Kit manufacturers, whether they

are a club or a company, have to make compromises in order to keep costs realistic. But, the qrper who builds the kit, because it is a hobby, can devote the time and energy to solving various problems caused by some of these compromises (we call them mods, grin). Sometimes the mods can lead to reams of paper (how do you say 38 Special?). Yet these are not necessarily "bad" things. We are evolving constantly, and I would venture to say that every kit and transceiver that has ever been designed has been improved with a mod or two or hundred. The K2 which is probably the best kit every made, is different now than when the beta testers built theirs. So are all of the other kits. The Cub has been out about 2 months. I predict that someone will find a solution to the drift problem that you are experiencing. When they do, they will post it to the cub reflector and also hopefully to qrp-l, and we will all benefit. That is the wonderful power of the internet and qrp-l.

72, Doug, KI6DS

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Fri, 31 Mar 2000 09:31:10 -0800 (PST)
From: Mike&Paula <herr@ridgecrest.ca.us>
To: qrp-l@lehigh.edu
Subject: [66926] RE: Poll on QRZ.COM
Message-ID: <200003311731.JAA27957@ridgecrest.ca.us>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Yep, tho my interest has been along the line of putting ATV into fun spots. ATV on kites, model rockets, and the infamous "dog cam" on sparky the wonder dog (very boring, dogs look at the ground a lot).

72

Mike WA6ARA

>

>What about ATV? I know guys that do QRP on ATV. I used to run QRP two
>watts ATV in Chicago. Did pretty good too. Used an old commercial UHF FM
>transmitter with a video modulator that I built up. Changed the bias on the
>tube to run linear. Not enough bandwidth to run color, but it was alot of
>fun. Used to work 60 miles or better all of the time and tropo was way out
>there. Anyone on the list ever do any QRP ATV?

>

>I'm not saying that this should be part of the question, I'm just
>interested.

>

>Hal

>

Date: Fri, 31 Mar 2000 09:37:14 -0800 (PST)
From: Jim Durkin <jimdurkin@yahoo.com>
To: aa5tb@swbell.net, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66927] Re: 30m QRP freq?
Message-ID: <20000331173714.18528.qmail@web303.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I believe the FISTS calling freq is 10111. FISTS
members have no problems hearing qrp signals<G>.
73
Jim kt4a

--- "Steve Yates, AA5TB" <aa5tb@swbell.net> wrote:
> John,
>
> 10.106 MHz has been listed in books for years as the
> QRP calling frequency
> but I don't think I've ever worked a QRP station
> there! That frequency is
> usually too close to some kind of rare DX :-)
>
> I've worked QRP stations just about everywhere else
> on the band. In fact,
> most of the stations I've worked are QRP. I would
> just say that 30m is a
> QRP band.
>
> 73,
> Steve Yates - AA5TB
> Fort Worth, TX - EM12gs
> <http://home.swbell.net/aa5tb>
>
>
>

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Fri, 31 Mar 2000 14:15:56 -0500

From: "Dana Michael" <damichael@blazenet.net>
To: <qrp-l@lehigh.edu>
Subject: [66928] FS: TEN-TEC 40M XCVR WITH BUILT IN FREQ-MITE
Message-ID: <000701bf9b45\$95309120\$2370fea9@mike>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

FOR SALE:

TEN-TEC T-KIT 1340 40M CW Transceiver with built in Small Wonder Labs
FREQ-Mite in good working condition, a few scuff marks on the case. \$100

Thanks,
D. A. Mike Michael W3TS
129 Church Lane
Halifax, Pa. 17032-8732
1-717-896-3973 from 5PM till 10PM EDT
damichael@blazenet.net

Date: Fri, 31 Mar 2000 14:26:21 -0500
From: Barry J Minsky <w2bj@juno.com>
To: qrp-l@lehigh.edu
Subject: [66929] BOB - WA2HOQ
Message-ID: <20000331.142627.-297595.0.w2bj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Bob, WA2HOQ, recently posted that he was ill. I have been concerned
about him. Has anyone on the list heard from him?

72/73,

Barry J. Minsky, W2BJ
ARRL, QRP ARCI #8871, NorCal #1560, QRP-L #1543, FISTS #2701, Century
Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal Georgia,
Knightlites, Adventure Radio Society #359,
Six Club #151, QCWA #29298, OOTC #3723, SOC #193

Date: Fri, 31 Mar 2000 09:18:26 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66930] bands dead?

Message-ID: <38E4CFD2.5A9F@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Anyone else notice that the bands are really dead, or is my receiver sick?

72, Tom WB5QYT

Date: Fri, 31 Mar 2000 13:34:20 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-l@Lehigh.EDU>
Subject: [66931] ArkieCon Prize and Saturday Test Drive update
Message-ID: <01c901bf9b48\$1d0e72e0\$449b66a6@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

Wow, the good fortunes just keep raining in on ArkieCon QRP Forum! MFJ is donating a 17m Cub QRP kit. And there is more, if you don't win the Cub or want a Cub on a different band, Gaylen, WB0W, will be at Fort Smith selling the Cub for \$84.95 (Hamfest Special). These Cubs sold like hot cakes at the Tulsa Hamfest last weekend. The Richard Stubbs from MFJ told me that Gaylen is reloaded and will be ready for Bear at ArkieCon.

Three SMK-1 transceiver kits with NJQRP club case and connector kits donated by NorCal and NJQRP.

Marshall Elmm/Milestone Technologies/Morse Express/Oak Hills Research--Whew what a list, grin. Marshall is donating a PK-3 keyer from Jackson Harbor Press.

Paul Harden is donating Handbook for Homebrewers, Elmer 101 Issue of QRPP, 2N2/40 issue of QRPP.

Doug Hauff is donating one of his custom blue anodized keys. Go to the NorCal page, web sites, QRP Suppliers, Custom Enclosures, and you'll see an example <http://www.fix.net/norcal.html>
I have one and love it!

Gary Diana and Embedded Research is donating a Tick Keyer

Oh I almost forgot the main prize is a K2 kit complete with a PW-1 antenna donated by Vern Wright.

Remember if you preregister you will get an extra drawing ticket, which will double your chances at winning. Register on the NorCal page <http://www.fix.net/norcal.html> plus you will receive a special heavy duty laminated name badge, absolutely free. Must be present to win!!

Now check out the equipment we have for the "Saturday Night Test Drive":

The Oak Hills equipment below is courtesy of Marshall Elmm and Oak Hills Research:

OHR 500
DD1 digital display
OHR 100A 20M
Idiom LK-3 keyer

Wilderness SST and a NC-40a courtesy of Bob Dyer

SMK-1 thanks Dave FiField and Doug Hendricks

SW-40 DSW-30/40 thanks Stan, K5VR and Mose, KB5BV.

Red Hots 20 and 40 meters. Thanks Don, K5KW, and Keith, K5YCM

Emtech NW-40 courtesy of the "Judge" Kelsey, KK5KU

My Beta Test K2

Vern Wright's PW-1 antenna thanks Vern

Boy, I bet I'm forgetting something. Thanks to all the donating Vendors and thank you guys for coming next weekend! If you live around here in the midwest I can't imagine you staying home to mow the lawn, grin. More to come stay tuned.

73 de w5jay..

P.S. For more information on ArkieCon just click on the NorCal links up above. If you need help just give me an e-mail or buzz me at 501-651-7012.

Date: Fri, 31 Mar 2000 12:44:37 -0700
From: "Rod, N0RC" <n0rc@qsl.net>
To: <ki6ds@hotmail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Cc: <qrpcub@listbot.com>
Subject: [66932] Re: QRP Transceiver VFO Drift
Message-ID: <01fd01bf9b49\$adc12f20\$c7101004@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Doug:

Excellent point(s)...

----- Original Message -----

From: Doug Hendricks <ki6ds@hotmail.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Friday, March 31, 2000 10:19 AM
Subject: QRP Transceiver VFO Drift

> Doug, I have some arm length experience with VFO drift. During the
> development of the NorCal 20, Mike Gipe, K1MG, Gary Surrency, AB7MY,
Dave
> Meacham, W6EMD, and Dave Fifield, AD6A, spent 5 weeks working
several hours
> every day to minimize the drift in the NC20. They succeeded quite
well, and
> the secret was finding the right combination of polystyrene and npo
caps.

I'd like to see a discussion of what was done and why. Have those
details been published anywhere? If not can they be posted to QRP-L?

72/3 Rod, N0RC -- Fort Collins, CO

Date: Fri, 31 Mar 2000 11:59:14 -0800
From: Scott Gregson - KC7MAS <emtech@steadynet.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [66933] battery charger

Message-ID: <38E50392.4478D06E@steadynet.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Well we shipped a few more. The company that I am developing this thing for just asked to have the board changed, so there will be a complete redesign to allow for their needs.

In the first few kits I shipped I had an error in the wiring diagram (I'm so surprised! - airhead). Anyway, all of the LED's are shown with the polarity wrong - duh (idiot felling present as I type away). I also showed the "battery voltage low" indicator LED going to the wrong pads. If you want to see a correction go to our forum and click on "battery charger drawing error." Or click here if your email program supports links:

[http://www.emtech.steadynet.com/forum/bforum.mv?
module=view&viewid=122&mode=all&row=&username=&password=](http://www.emtech.steadynet.com/forum/bforum.mv?module=view&viewid=122&mode=all&row=&username=&password=)

The link below the post is to a corrected wiring diagram.

I will make some more BC-1 Rev 1 boards to ship Monday, I should have new sharp drill bit by then also, even the carbide ones get dull after a few hundred holes.

--

Scott Gregson - KC7MAS

emtech@steadynet.com

<http://emtech.steadynet.com>

+++++

Scott Gregson Co. / Emtech / CFC

1127 Poindexter Ave W

Bremerton, WA 98312

Date: Fri, 31 Mar 2000 14:00:21 -0600

From: George F Franklin <w0av@juno.com>

To: qrp-1@lehigh.edu

Subject: [66934] Ref: K2 Upgrades

Message-ID: <20000331.140022.-454867.0.w0av@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Hello Fellow K2ers,

I just received the 160M, SSB and ATU kits for my K2 (SN 550).

What is the recommended sequenc of installation of the above modules?

It appears that the wrong sequence could result in some unnecessary rework, etc.

TIA

72/73/74

de George/W0AV
SOC#101

YOU'RE PAYING TOO MUCH FOR THE INTERNET!
Juno now offers FREE Internet Access!
Try it today - there's no risk! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Fri, 31 Mar 2000 15:01:51 EST
From: Shepherd@aol.com
To: qrp-1@lehigh.edu
Subject: [66935] Re: bands dead?
Message-ID: <86.1e2aad0.26165e2f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 3/31/00 2:42:38 PM Eastern Standard Time,
wb5qyt@eFortress.com writes:

<< Gang,

Anyone else notice that the bands are really dead, or is my receiver sick?

72, Tom WB5QYT
>>

Tom, your receiver is fine, the bands are really dead. Been that way here in SW Ohio for two days.

72, 73, oo's
Dan, N8IE Kettering, Oh
FPqrp #-6, QRP-1 #1404, FISTS #4985, Zombie #667, SOC #284

<http://members.aol.com/shephed/n8ie.htm>

Date: Fri, 31 Mar 2000 15:02:27 -0500
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [66936] ARRL Web Page Survey - QRP
Message-ID: <125490A005E3D3118C9C00805FC743CC3E18A5@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Okay, guys and gals, so ONCE in a while, I manage to do something cool for QRP in the course of my official duties. :-)

See the current survey on the ARRL Web Page at <http://www.arrl.org>.

Now, there are quite a few current subscribers to QRP-L, and no small number on other QRP mailing lists, so let's see a good voter turnout. I think ARRL HQ already knows that QRP is cool, but let's make sure that everybody who looks at the results is pleasantly surprised. :-)

73, Ed Hare, W1RFI
ARRL Lab

Date: Fri, 31 Mar 2000 15:10:14 -0500
From: "Victor Blackwell" <victor@brecnet.com>
To: <Shephed@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [66937] Re: bands dead?
Message-ID: <000801bf9b4d\$2144b040\$5d5730d1@pavilion>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

You are just experiencing a solar flare. It will be OK soon.

Vic AD8K

-----Original Message-----

From: Shephed@aol.com <Shephed@aol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Friday, March 31, 2000 2:56 PM
Subject: Re: bands dead?

>In a message dated 3/31/00 2:42:38 PM Eastern Standard Time,
>wb5qyt@eFortress.com writes:
>
><< Gang,
>
> Anyone else notice that the bands are really dead, or is my receiver
> sick?
>
> 72, Tom WB5QYT
> >>
>
>Tom, your receiver is fine, the bands are really dead. Been that way here
in
>SW Ohio for two days.
>
>72, 73, oo's
>Dan, N8IE Kettering,Oh
>FPqrp #-6, QRP-1 #1404, FISTS #4985, Zombie #667, SOC #284
><http://members.aol.com/shephed/n8ie.htm>

Date: Fri, 31 Mar 2000 09:55:19 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66938] tn timer RE: band condx
Message-ID: <38E4D877.4E74@eFortress.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

Thanks for the info on the band condx's. Hope things improve by
tomorrow.

72, Tom WB5QYT

Date: Fri, 31 Mar 2000 10:01:11 -0700
From: tom whalen <wb5qyt@eFortress.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [66939] Cub observation
Message-ID: <38E4D9D7.6D48@eFortress.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gang,

The CUB being a new rig, has a few glitches. The main one is that it drifts. I'm sure it is a problem that can be easily solved in due time. What I usually do is just let it warm up for about an hour before I use it. Heck, I may just leave it on all the time. It eventually settles down.

One other thing that I'm going to fix is the QSK on the rig. Very slow return to rec after xmit. I know that mod is out already.

Overall, neat rig. Very quiet rec. reminds me of the SST.

So, who is going to be the drift guro on this rig?

72, Tom WB5QYT.... "Have spud will travel!"

Date: Fri, 31 Mar 2000 14:16:02 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-1@Lehigh.EDU>
Cc: "Doug Hendricks" <ki6ds@dpol.k12.ca.us>
Subject: [66940] Re: Chuck Adams: QSL Get Well Cards and PSE QSL
Message-ID: <01e401bf9b4d\$f1009ec0\$449b66a6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Doug you said it all below!!

Gang, in the mail yesterday I got a letter from "guess who?" Chuck, K7Q0! I thought to myself, "what's this?", because Chuck is in the hospital. I open up the envelope and in it was a QSL that Chuck must have filled out before he left for hospital in Big D. This was the single digit milliwatt contact we made on 20 meters some time ago. What makes the contact more memorable is that Chuck was lurking in the background listening to me work Doug, KI6DS, and Ray Colbert, W5XE, at 30 milliwatts and lower. Nothing new about getting a card in from Chuck except for the timing. I got to looking over the card it had all sorts of personal messages from Chuck. Then I

looked over in the QSL box where it has the usual PSE or TNX, Chuck had circled the PSE. I think the list can read my thoughts on this and pse read below if you can't, grin. QRP cards like Chuck's mean more to me than all my DXCC and WAS cards put together. Get well soon Chuck and try to take it easy for just a little while!!
73 de w5jay..

> Guys, Chuck Adams, K7Q0, has helped every ham on this list. He recently
> underwent angioplasty, and is recovering now. I know what he is going
> through, and I know something that you can do to help his recovery. One
of
> the best "medicines" that I had during my recovery were the get well cards
> from all of you. It really was special. My favorite "get well" cards
were
> QSL's that had a hand written note on the back. It was something special,
> and I treasured them. So, let's do the same thing for Chuck. Take a
> minute, write him a short note on the back of qsl, put it in an envelope,
> and send it to:
>
> CHUCK ADAMS
> BOX 11840
> PRESCOTT AZ 86304-1840
>
> Thanks for the bandwidth. It is important to show that you care. 72,
Doug,
> KI6DS
>

Date: Fri, 31 Mar 2000 15:36:31 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <w0av@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [66941] Re: K2 Upgrades
Message-ID: <006301bf9b51\$2f74c020\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, I'm in the process of building my K2. So I won't be the
'old man' for advice.

But I HAVE discovered that reading the manual is essential. No,
no to be snotty, I mean that seriously. Pick out the options and
look for where it list modifications back to the main unit or board.

Also look for any section that tells you how to 'uninstall' an option.

I found out the hard way that once I 'finished' my front panel, I had to take it apart again for the SSB. And then solder parts inbetween the soft plastic switches with a hot iron. I had to be VERY careful there! It would have been MUCH easier to just put those parts on before I installed the keycaps and then the optical encoder and closed the thing up.

I've since built my options, even though I JUST started the RF board. And I install the parts UP TO where it tells me how to uninstall it, if you follow that. Ie. the connectors and parts, and the jumpers that are usually needed if the part is uninstalled are put on. I DO plan on powering up the unit first time without the options, then putting the options.

Mike

----- Original Message -----

From: George F Franklin <w0av@juno.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Friday, March 31, 2000 3:00 PM

Subject: Ref: K2 Upgrades

> Hello Fellow K2ers,

>

> I just received the 160M, SSB and ATU kits for my K2 (SN 550).

>

> What is the recommended sequenc of installation of the above modules?

>

> It appears that the wrong sequence could result in some unnecessary
> rework, etc.

>

> TIA

>

> 72/73/74

>

> de George/W0AV

> SOC#101

>

>

>

> -----
> YOU'RE PAYING TOO MUCH FOR THE INTERNET!

> Juno now offers FREE Internet Access!

> Try it today - there's no risk! For your FREE software, visit:
> <http://dl.www.juno.com/get/tagj>.
>

Date: Fri, 31 Mar 2000 14:48:13 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-1@Lehigh.EDU>
Subject: [66942] Fw: ArkieCon Prize and Saturday Test Drive update
Message-ID: <02d501bf9b52\$6f83dec0\$449b66a6@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang, sorry for the multiple posts, but this just came in from George Heron.
Wow, it just keeps getting better. Thank you George and the NJQRP group!
73 de w5jay..

Jay,

Please accept the following door prizes from the New Jersey QRP Club:

- 1 - Fireball 40 transceiver kit (includes optional 1.5W amplifier and TiCK keyer)
- 1 - Tuna Tin 2 Kit
- 1 - SOP Receiver Kit (with optional Freq-Mite AFA, enclosure and controls)
- 2 - Atlanticon Proceedings books

Sure wish I could be there with you! Still recovering from Atlanticon excitement. I wish you all the best and I know it'll be great. Nice going with all the prep work.

72, George N2APB

> Gang,
>
> Wow, the good fortunes just keep raining in on ArkieCon QRP Forum! MFJ is
> donating a 17m Cub QRP kit. And there is more, if you don't win the Cub
or
> want a Cub on a different band, Gaylen, WBOW, will be at Fort Smith
selling
> the Cub for \$84.95 (Hamfest Special). These Cubs sold like hot cakes at
the
> Tulsa Hamfest last weekend. The Richard Stubbs from MFJ told me that

Gaylen

> is reloaded and will be ready for Bear at ArkieCon.
>
> Three SMK-1 transceiver kits with NJQRP club case and connector kits
donated
> by NorCal and NJQRP.
>
> Marshall Elmm/Milestone Technologies/Morse Express/Oak Hills
Research--Whew
> what a list, grin. Marshall is donating a PK-3 keyer from Jackson Harbor
> Press.
>
> Paul Harden is donating Handbook for Homebrewers, Elmer 101 Issue of QRPp,
> 2N2/40 issue of QRPp.
>
> Doug Hauff is donating one of his custom blue anodized keys. Go to the
> NorCal page, web sites, QRP
> Suppliers, Custom Enclosures, and you'll see an example
> <http://www.fix.net/norcal.html>
> I have one and love it!
>
> Gary Diana and Embedded Research is donating a Tick Keyer
>
> Oh I almost forgot the main prize is a K2 kit complete with a PW-1 antenna
> donated by Vern Wright.
>
> Remember if you preregister you will get an extra drawing ticket, which
will
> double your chances at winning. Register on the NorCal page
> <http://www.fix.net/norcal.html> plus you will receive a special heavy duty
> laminated name badge, absolutely free. Must be present to win!!
>
> Now check out the equipment we have for the "Saturday Night Test Drive":
>
> The Oak Hills equipment below is courtesy of Marshall Elmm and Oak Hills
> Research:
>
> OHR 500
> DD1 digital display
> OHR 100A 20M
> Idiom LK-3 keyer
>
> Wilderness SST and a NC-40a courtesy of Bob Dyer
>
> SMK-1 thanks Dave FiField and Doug Hendricks
>
> SW-40 DSW-30/40 thanks Stan, K5VR and Mose, KB5BV.
>

> Red Hots 20 and 40 meters. Thanks Don, K5KW, and Keith, K5YCM
>
> Emtech NW-40 courtesy of the "Judge" Kelsey, KK5KU
>
> My Beta Test K2
>
> Vern Wright's PW-1 antenna thanks Vern
>
> Boy, I bet I'm forgetting something. Thanks to all the donating Vendors
and
> thank you guys for coming next weekend! If you live around here in the
> midwest I can't imagine you staying home to mow the lawn, grin. More to
> come stay tuned.
>
> 73 de w5jay..
>
>
> P.S. For more information on ArkieCon just click on the NorCal links up
> above. If you need help just give me an e-mail or buzz me at
501-651-7012.
>
>

Date: Fri, 31 Mar 2000 15:01:37 -0600
From: "Jay Bromley" <w5jay@alltel.net>
To: <qrp-l@Lehigh.EDU>
Cc: "William Winnscott" <n6cha@ipa.net>, "Steve Lowrey" <snlowrey@alltel.net>,
"Steve Gibbs" <k5oy@alltel.net>, "Stan Ross" <sross@ipa.net>,
"Royce Rainwater" <ke5tc@crosstel.net>, "Richard Donovan" <n5xm@alltel.net>,
"Randy Baggett" <kg5ne@cei.net>, "Nicholas Kennedy" <nkenned@entergy.com>,
Subject: [66943] Fw: ArkieCon Prize and Test Drive UPDATE
Message-ID: <032101bf9b54\$57a43280\$449b66a6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

And now Doug adds 100 ArkieCon Log Books to the prize list, this sure is
fun!!
Gang have a great weekend I will try to be quiet now!
73 de w5jay..

> Gang, sorry for the multiple posts, but this just came in from George
Heron.
> Wow, it just keeps getting better. Thank you George and the NJQRP group!

> 73 de w5jay..
>
> Jay,
>
> Please accept the following door prizes from the New Jersey QRP Club:
>
> 1 - Fireball 40 transceiver kit (includes optional 1.5W amplifier and TiCK
> keyer)
> 1 - Tuna Tin 2 Kit
> 1 - SOP Receiver Kit (with optional Freq-Mite AFA, enclosure and controls)
> 2 - Atlanticon Proceedings books
>
> Sure wish I could be there with you! Still recovering from Atlanticon
> excitement. I wish you all the best and I know it'll be great. Nice
going
> with all the prep work.
>
> 72, George N2APB
>
> > Gang,
> >
> > Wow, the good fortunes just keep raining in on ArkieCon QRP Forum! MFJ
is
> > donating a 17m Cub QRP kit. And there is more, if you don't win the Cub
> or
> > want a Cub on a different band, Gaylen, WB0W, will be at Fort Smith
> selling
> > the Cub for \$84.95 (Hamfest Special). These Cubs sold like hot cakes at
> the
> > Tulsa Hamfest last weekend. The Richard Stubbs from MFJ told me that
> Gaylen
> > is reloaded and will be ready for Bear at ArkieCon.
> >
> > Three SMK-1 transceiver kits with NJQRP club case and connector kits
> donated
> > by NorCal and NJQRP.
> >
> > Marshall Elmm/Milestone Technologies/Morse Express/Oak Hills
> Research--Whew
> > what a list, grin. Marshall is donating a PK-3 keyer from Jackson
Harbor
> > Press.
> >
> > Paul Harden is donating Handbook for Homebrewers, Elmer 101 Issue of
QRPP,
> > 2N2/40 issue of QRPP.
> >
> > Doug Hauff is donating one of his custom blue anodized keys. Go to the

> > NorCal page, web sites, QRP
> > Suppliers, Custom Enclosures, and you'll see an example
> > <http://www.fix.net/norcal.html>
> > I have one and love it!
> >
> > Gary Diana and Embedded Research is donating a Tick Keyer
> >
> > Oh I almost forgot the main prize is a K2 kit complete with a PW-1
antenna
> > donated by Vern Wright.
> >
> > Remember if you preregister you will get an extra drawing ticket, which
> > will
> > double your chances at winning. Register on the NorCal page
> > <http://www.fix.net/norcal.html> plus you will receive a special heavy
duty
> > laminated name badge, absolutely free. Must be present to win!!
> >
> > Now check out the equipment we have for the "Saturday Night Test Drive":
> >
> > The Oak Hills equipment below is courtesy of Marshall Elmm and Oak Hills
> > Research:
> >
> > OHR 500
> > DD1 digital display
> > OHR 100A 20M
> > Idiom LK-3 keyer
> >
> > Wilderness SST and a NC-40a courtesy of Bob Dyer
> >
> > SMK-1 thanks Dave FiField and Doug Hendricks
> >
> > SW-40 DSW-30/40 thanks Stan, K5VR and Mose,KB5BV.
> >
> > Red Hots 20 and 40 meters. Thanks Don, K5KW, and Keith, K5YCM
> >
> > Emtech NW-40 courtesy of the "Judge" Kelsey, KK5KU
> >
> > My Beta Test K2
> >
> > Vern Wright's PW-1 antenna thanks Vern
> >
> > Boy, I bet I'm forgetting something. Thanks to all the donating Vendors
> > and
> > thank you guys for coming next weekend! If you live around here in the
> > midwest I can't imagine you staying home to mow the lawn, grin. More to
> > come stay tuned.
> >

> > 73 de w5jay..
> >
> >
> > P.S. For more information on ArkieCon just click on the NorCal links up
> > above. If you need help just give me an e-mail or buzz me at
> 501-651-7012.
> >
> >
>
>
>

Date: Fri, 31 Mar 2000 16:22:34 -0500
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [66944] NC-20 Tune Pot
Message-ID: <013f01bf9b57\$3c23c360\$010044c0@Conor.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang,

I finally started building my Norcal 20 (Well, it's not quite as bad as it sounds, as far as I can tell, this unit was originally purchased by Doc, and was through a few hands before it landed in mine, still unbuilt. But I _have_ had it for several months waiting for the muse to strike!)

Anyway, the radio comes with a 270 degree tuning pot, and a pile of holes and jumpers and such to use a ten turn pot. It so happens that I had a Bourne 3590, which looks to be pretty similar to the 3540 which is among the types of pot they apparently tried. (Actually, when I looked a little closer at the drawings for a 3540 while writing this, it appears that there is no way that thing would fit - but oh well).

Well, there are all sorts of instructions about drilling out the panel, clipping off tabs, etc. and when all this is done, the lugs for the 3590 line up exactly with the holes in the board for a ten turn pot. So in it goes, but I was a little surprised by the traces beneath the pot. Lugs 2 and 3 were connected together, and the schematic didn't seem to indicate this was the case. Well, I reread the manual a half-dozen times looking for clues and found none. Shrug ... back to melting solder.

When I got to the part where you test the voltage on pin 6 of U1 as the pot

is moved, surprise surprise, it didn't budge. It did, however, move about the amount expected when the RIT was twiddled.

Well, there was another hole which appeared to be where lug 2 wanted to be, but it wasn't reachable without a jumper. Further, since lug 2 is immediately over the wrong hole, it needed some insulation. When all this was done, the voltage moved just as expected so I'm off and running again. (Well, not right away ... gotta take the XYL out shopping/dinner.) More reports to follow.

If there are any unbuilt NC-20's left in captivity, pay attention to the schematic. Just because the part fits perfectly doesn't mean that's how it goes. I soldered it in wrong after I caught it because I assumed I didn't understand something. I imagine the RH20 comes with the right part and you wouldn't have this problem. But it seems to always be a mistake to assume that it only looks odd because someone else knew something you didn't.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

Date: Fri, 31 Mar 2000 16:29:54 -0500 (EST)
From: Jim Cotton <cotton@wmich.edu>
To: qrp-l@Lehigh.EDU
Subject: [66945] Want to trade Tektronix 2215 Service Manual for 2215A Service Manual
Message-ID: <Pine.GS0.4.21.0003311602260.23248-1000000@puma>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Not exactly QRP, please reply privately.

A friend of mine recently accepted a position as lab manager with the EE Department. I stopped by to give him a hand fixing the instrument repair backlog. The department has a 50/50 mix of 2215's and 2215A's. They have a spare 2215 Service Manual and would like to trade for a 2215A Service Manual.

Jim Cotton, N8QOH | jim.cotton@wmich.edu
Western Michigan University | Phone: (616) 387-6421
Network Systems Group | Fax: (616) 387-5473

Date: Fri, 31 Mar 2000 16:02:57 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: wlrfi@arrl.org
Cc: qrp-l@lehigh.edu
Subject: [66946] Re: ARRL Web Page Survey - QRP
Message-ID: <200003312300.QAA07804@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:02 PM 3/31/2000 -0500, you wrote:

>Okay, guys and gals, so ONCE in a while, I manage to do something cool for
>QRP in the course of my official duties. :-)

>

>See the current survey on the ARRL Web Page at <http://www.arrl.org>.

>

>Now, there are quite a few current subscribers to QRP-L, and no small number
>on other QRP mailing lists, so let's see a good voter turnout. I think ARRL
>HQ already knows that QRP is cool, but let's make sure that everybody who
>looks at the results is pleasantly surprised. :-)

>

amazing how many say they NEVER operate QRP. They don't know what they're
missing :^)

Bob Hightower NK7M
Chandler, AZ
SOC #20

<http://www.extremezone.com/~nk7m>

Date: Fri, 31 Mar 2000 18:37:09 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [66947] Re: Cub (Drift) observation
Message-ID: <200003312316.SAA04391@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>

> The CUB being a new rig, has a few glitches. The main one is that it

> drifts. I'm sure it is a problem that can be easily solved in due
> time.

Tom, et al,

Maybe not.

I believe you (or someone) mentioned that the VFO in the CUB uses the internal osc section of the NE602. I've tried this myself, from time to time, and quickly abandoned it. I've found the chip it's self is responsible for much of the drift. Probably some internal silicon capacitors in the osc section are not very stable or changes in biasing leads to the drift. Doesn't take much delta-T to see the drift either. To confirm this, try gently blowing on the chip through a straw, as not to heat any other parts. The internal osc was meant to be used with an xtal or be PLL stabilized.

If you look at the NE4040 or SWL SW+, you'll see that Dave used an external VFO, despite the fact these are very minimalist and low current designs. You can be sure he did this for a very good reason, the internal osc of the NE602 just doesn't cut it. If it was any good, you can bet he would have used the internal osc to save on parts, current and board real estate.

So, I think the only good solution would be to build up a discrete VFO oscillator. If you made it with SMT parts, it would be very small. Better find those obsolete Prime Star set-top boxes to salvage SMT parts from, before they all end up in the land-fill, hi!

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Fri, 31 Mar 2000 19:01:37 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [66948] SMT parts source
Message-ID: <200003312340.SAA10603@wolf.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

Okay Gang,

I posted this info the other day, but because of a poor choice of subject header (free satellite Rx) and the opening paragraph, many

must of thought it was spam mail.

Anyway, Prime Star set top boxes are being replaced across the country with new Direct TV ones. At least in my area, the dealers don't want to keep the old Prime Star boxes, so tell the customer to throw it away. Well, my mailman had his system converted and asked me if I wanted the old box. Sure, got to be something usefull in it, hi.

Turns out there are a lot of useless custom computer chips in there, but the switcher supply that runs it could be usefull, there are half a dozen or so SMT dual op amps, couple of MC 1496 mixers, hundreds of chip caps and resistors on the bottom of the board, transistors and other assorted goodies. Maybe you could find a use for the ADV101 30 Mhz tripple 8 bit R-G-B video DAC or the TMS70C20 DSP chip. (think that's what it is)

Could be worth while seeing if the conversion is being done in your area and turn up a few of these boxes.

72,

Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Fri, 31 Mar 2000 18:57:19 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: kd1jv@moose.ncia.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [66949] Re: Cub (Drift) observation
Message-ID: <38E53B5F.1BDF@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Steven,

The MXM designs used NE602's throughout. In order to stabilize the rigs external oscillators were used everywhere except the product detectors. The product detectors used the internal NE602 oscillators but they were running at very low frequencies. I suspect if the Cub uses the internal oscillator it will best be helped by adding external oscillators!

73

End of QRP-L Digest 1777
